

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 61838

Tuesday, September 07, 2010 3:18:48 PM



Page 2

Item ID: D3500-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Saddle

Start Date: 9/7/2010 Start Qty: 20.00



Cust Item ID:

Required Date: 9/13/2010 Req'd Qty: 20.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 Hand Finish Hand Finishing	Chemical Conversion Coat per QSI005 4.1 Memo	0.00 0.00				20	0	11/6/13	
140 Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum M115951 Memo START TIME: 10:25 OVEN TEMPERATURE: 300° FINISH TIME: 10:55	0.00 0.00				20	0	11-01-14	
150 QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.00						20	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 61838

Tuesday, September 07, 2010 3:18:48 PM



Page 3

Item ID: D3500-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Saddle

Start Date: 9/7/2010 Start Qty: 20.00



Cust Item ID:

Required Date: 9/13/2010 Req'd Qty: 20.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

160



Packaging

Identify as per dwg & Stock Location: 425

0.00

Memo

0.00

Packaging

11/1/17 202 J

170



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

11/01/17 ME 11-01-17

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, September 07, 2010 3:18:52 PM

Page 1

Work Order ID: 61838



Parent Item: D3500-1

Parent Item Name: Saddle


Start Date: 9/7/2010

Required Date: 9/13/2010

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP Rev:A New Issue 06-06-15 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6102-013  Saddle Billet		Manufactured	No			100	Each	37.0000	1	20			

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT43	37	
59467	3	
60713	8	
61300	26	
62010		

20.0

H.A 11/01/10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	<i>61838</i>
Description: Saddle	Part Number:	D3500-1
Inspection Dwg: D3500	Rev: C	Page 1 of 5

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	By	Date
A	0.483	0.490		0.486	0.486	0.486	0.486	Vern	GA-01
B	1.175	1.185		1.180	1.180	1.180	1.180	"	"
C	3.145	3.155		3.150	3.150	3.150	3.150	"	"
D	1.175	1.185		1.180	1.180	1.180	1.180	"	"
E	0.365	0.385		0.375	0.375	0.375	0.375	"	"
F	0.490	0.510		0.499	0.499	0.497	0.499	"	"
H									
I	R1.575	R1.595		1.5807	1.5848	1.5863	1.585	Dial	HAAS 2
J	0.240	0.260		0.253	0.250	0.250	0.250	Vern	GA-01
K	0.490	0.510		0.500	0.500	0.500	0.500	"	"
L	3.590	3.650		3.620	3.620	3.620	3.620	"	"
M	0.315	0.322		0.317	0.317	0.317	0.317	"	"
N	0.256	0.262		0.259	0.259	0.259	0.259	"	"
O	6.500	6.520		6.510	6.510	6.510	6.510	Vern	GN-02
P	5.990	6.010		6.000	6.000	6.000	6.000	"	"
Q	2.820	2.830		2.825	2.825	2.825	2.825	Vern	GA-01
R	2.495	2.505		2.500	2.500	2.500	2.500	"	"
S	2.245	2.255		2.250	2.250	2.250	2.250	"	"
T	1.120	1.130		1.125	1.125	1.125	1.125	"	"
U	0.540	0.560		0.553	0.551	0.551	0.551	"	"
V	0.793	0.803		0.798	0.798	0.798	0.798	"	"
W	R.240	R.260		0.250	0.250	0.250	0.250	R-6	ref.
X	0.040	0.060		0.050	0.050	0.050	0.050	Vern	GA-01
Y	0.100	0.120		0.110	0.110	0.110	0.110	"	"
AA	R1.125	R1.145		1.129	1.1327	1.1342	1.1327	Dial	HAAS 2
AB	R.490	R.510		0.500	0.500	0.500	0.500	R-6	ref.
AC	0.615	0.635		0.625	0.625	0.625	0.625	Vern	GA-01
AD	0.240	0.260		0.254	0.252	0.251	0.251	"	"
AE	1.810	1.830		1.823	1.821	1.821	1.821	"	"
AF	0.240	0.260		0.250	0.249	0.249	0.249	"	"
AG	0.140	0.160		0.151	0.153	0.154	0.152	"	"
AH	0.140	0.160		0.159	0.158	0.158	0.159	"	"
AI	0.140	0.160		0.153	0.152	0.153	0.153	"	"
Accept/Reject									

Measured by:	<i>B.A.</i>
Date:	<i>11/01/10</i>

Audited by:	<i>CHP</i>
Date:	<i>11/01/13</i>

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	<i>[Signature]</i>

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order:	<i>01931</i>
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500		Rev: C	Page 2 of 5

				Recorded Actual Dimensions				By	Date
Dim	Min	Max	Go/No Go Gauge	15	16	17	18		
A	0.483	0.490		0.486	0.486	0.486	0.486		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		0.375	0.375	0.375	0.375		
F	0.490	0.510		0.497	0.497	0.498	0.499		
H									
I	R1.575	R1.595		1.586	1.5851	1.5852	1.5856		
J	0.240	0.260		0.248	0.251	0.248	0.249		
K	0.490	0.510		0.500	0.500	0.500	0.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		0.317	0.317	0.317	0.317		
N	0.256	0.262		0.259	0.259	0.259	0.259		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		0.550	0.550	0.550	0.550		
V	0.793	0.803		0.798	0.798	0.798	0.798		
W	R.240	R.260		0.250	0.250	0.250	0.250		
X	0.040	0.060		0.050	0.050	0.050	0.050		
Y	0.100	0.120		0.110	0.110	0.110	0.110		
AA	R1.125	R1.145		1.1338	1.1331	1.1328	1.1326		
AB	R.490	R.510		0.500	0.500	0.500	0.500		
AC	0.615	0.635		0.625	0.625	0.625	0.625		
AD	0.240	0.260		0.253	0.254	0.253	0.253		
AE	1.810	1.830		1.823	1.823	1.823	1.823		
AF	0.240	0.260		0.250	0.250	0.250	0.250		
AG	0.140	0.160		0.152	0.152	0.150	0.152		
AH	0.140	0.160		0.159	0.156	0.158	0.158		
AI	0.140	0.160		0.155	0.155	0.155	0.156		
Accept/Reject									

Measured by:	<i>H.A</i>
Date:	<i>11/01/11</i>

Audited by:	<i>Chad</i>
Date:	<i>11/01/13</i>

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	<i>[Signature]</i>

DART AEROSPACE LTD		Work Order:	<i>61931</i>
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500		Rev: C	Page 3 of 5

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	19	210	311	412	By	Date
A	0.483	0.490		0.486	0.486	0.486	0.486		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		0.375	0.375	0.375	0.375		
F	0.490	0.510		0.498	0.498	0.498	0.498		
H									
I	R1.575	R1.595		1.5854	1.5852	1.5852	1.5853		
J	0.240	0.260		0.248	0.249	0.249	0.249		
K	0.490	0.510		0.500	0.500	0.500	0.500		
L	3.590	3.650		3.620	3.626	3.620	3.620		
M	0.315	0.322		0.317	0.317	0.317	0.317		
N	0.256	0.262		0.259	0.259	0.259	0.259		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		0.550	0.550	0.550	0.550		
V	0.793	0.803		0.798	0.798	0.798	0.798		
W	R.240	R.260		0.250	0.250	0.250	0.250		
X	0.040	0.060		0.050	0.050	0.050	0.050		
Y	0.100	0.120		0.110	0.110	0.110	0.110		
AA	R1.125	R1.145		1.1324	1.1328	1.1326	1.1328		
AB	R.490	R.510		0.500	0.500	0.500	0.500		
AC	0.615	0.635		0.625	0.625	0.625	0.625		
AD	0.240	0.260		0.253	0.253	0.253	0.253		
AE	1.810	1.830		1.823	1.823	1.823	1.823		
AF	0.240	0.260		0.250	0.250	0.250	0.250		
AG	0.140	0.160		0.152	0.152	0.152	0.154		
AH	0.140	0.160		0.157	0.158	0.157	0.159		
AI	0.140	0.160		0.155	0.156	0.155	0.155		
Accept/Reject									

Measured by:	<i>J.A</i>
Date:	<i>11/01/12</i>

Audited by:	<i>[Signature]</i>
Date:	<i>11/01/13</i>

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	<i>[Signature]</i>

DART AEROSPACE LTD		Work Order:	<i>61931</i>
Description: Saddle		Part Number:	D3500-1
Inspection Dwg: D3500		Rev: C	Page 4 of 5

				Recorded Actual Dimensions				By	Date
Dim	Min	Max	Go/No Go Gauge	#13	#14	#15	#16		
A	0.483	0.490		0.486	0.486	0.486	0.486		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		0.375	0.375	0.375	0.375		
F	0.490	0.510		0.500	0.499	0.499	0.500		
H									
I	R1.575	R1.595		1.5853	1.5852	1.5856	1.5856		
J	0.240	0.260		0.248	0.248	0.248	0.248		
K	0.490	0.510		0.500	0.500	0.500	0.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		0.317	0.317	0.317	0.317		
N	0.256	0.262		0.259	0.259	0.259	0.259		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		0.550	0.550	0.550	0.550		
V	0.793	0.803		0.798	0.798	0.798	0.798		
W	R.240	R.260		0.250	0.250	0.250	0.250		
X	0.040	0.060		0.050	0.050	0.050	0.050		
Y	0.100	0.120		0.110	0.110	0.110	0.110		
AA	R1.125	R1.145		1.133	1.1331	1.1328	1.1327		
AB	R.490	R.510		0.500	0.500	0.500	0.500		
AC	0.615	0.635		0.625	0.625	0.625	0.625		
AD	0.240	0.260		0.253	0.253	0.253	0.253		
AE	1.810	1.830		1.823	1.823	1.823	1.823		
AF	0.240	0.260		0.250	0.250	0.250	0.250		
AG	0.140	0.160		0.151	0.153	0.153	0.152		
AH	0.140	0.160		0.158	0.159	0.158	0.158		
AI	0.140	0.160		0.155	0.154	0.155	0.155		
Accept/Reject									

Measured by:	<i>B.A</i>
Date:	<i>11/01/12</i>

Audited by:	<i>amk</i>
Date:	<i>11/01/13</i>

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	<i>[Signature]</i>

DART AEROSPACE LTD				Work Order:	01231
Description: Saddle				Part Number:	D3500-1
Inspection Dwg: D3500 Rev: C				Page 5 of 5	

				Recorded Actual Dimensions				By	Date
Dim	Min	Max	Go/No Go Gauge	17	18	19	20		
A	0.483	0.490		0.486	0.486	0.486	0.486		
B	1.175	1.185		1.180	1.180	1.180	1.180		
C	3.145	3.155		3.150	3.150	3.150	3.150		
D	1.175	1.185		1.180	1.180	1.180	1.180		
E	0.365	0.385		0.375	0.375	0.375	0.375		
F	0.490	0.510		0.499	0.499	0.499	0.500		
H									
I	R1.575	R1.595		1.5852	1.5854	1.5854	1.5851		
J	0.240	0.260		0.248	0.249	0.248	0.248		
K	0.490	0.510		0.500	0.500	0.500	0.500		
L	3.590	3.650		3.620	3.620	3.620	3.620		
M	0.315	0.322		0.317	0.317	0.317	0.317		
N	0.256	0.262		0.259	0.259	0.259	0.259		
O	6.500	6.520		6.510	6.510	6.510	6.510		
P	5.990	6.010		6.000	6.000	6.000	6.000		
Q	2.820	2.830		2.825	2.825	2.825	2.825		
R	2.495	2.505		2.500	2.500	2.500	2.500		
S	2.245	2.255		2.250	2.250	2.250	2.250		
T	1.120	1.130		1.125	1.125	1.125	1.125		
U	0.540	0.560		0.550	0.550	0.550	0.550		
V	0.793	0.803		0.798	0.798	0.798	0.798		
W	R.240	R.260		0.250	0.250	0.250	0.250		
X	0.040	0.060		0.050	0.050	0.050	0.050		
Y	0.100	0.120		0.110	0.110	0.110	0.110		
AA	R1.125	R1.145		1.1332	1.1328	1.1326	1.1331		
AB	R.490	R.510		0.500	0.500	0.500	0.500		
AC	0.615	0.635		0.625	0.625	0.625	0.625		
AD	0.240	0.260		0.253	0.253	0.253	0.253		
AE	1.810	1.830		1.823	1.823	1.823	1.823		
AF	0.240	0.260		0.250	0.250	0.250	0.250		
AG	0.140	0.160		0.151	0.151	0.152	0.151		
AH	0.140	0.160		0.158	0.158	0.157	0.159		
AI	0.140	0.160		0.155	0.155	0.155	0.155		
Accept/Reject									

Measured by:	B.A
Date:	11/01/12

Audited by:	Amf
Date:	11/01/13

Rev	Date	Change	Revised by	Approved
A	06.09.26	New Issue	KJ/EC	
B	08.10.07	Dimension H removed	KJ/DD	
C	08.11.28	Dimension 'M' revised	KJ/EC	

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED

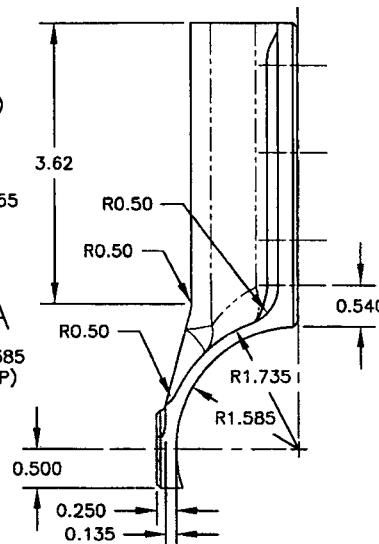
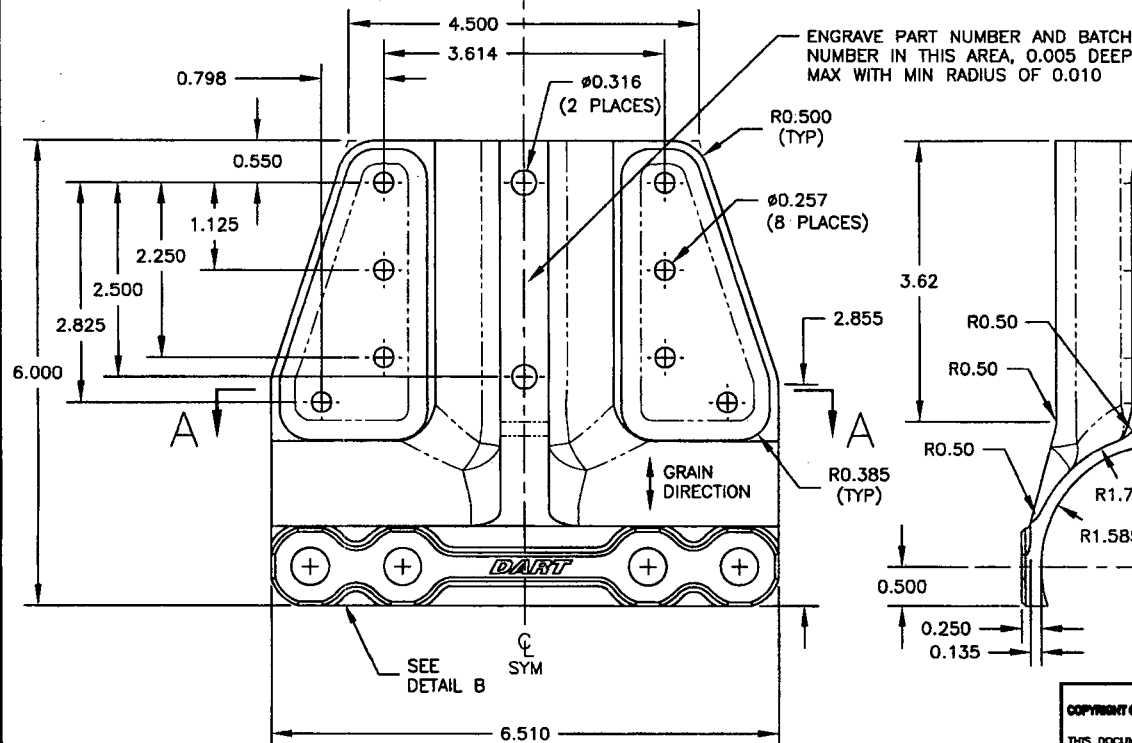
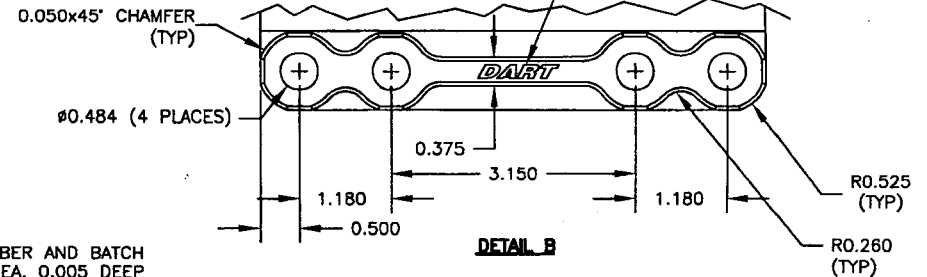
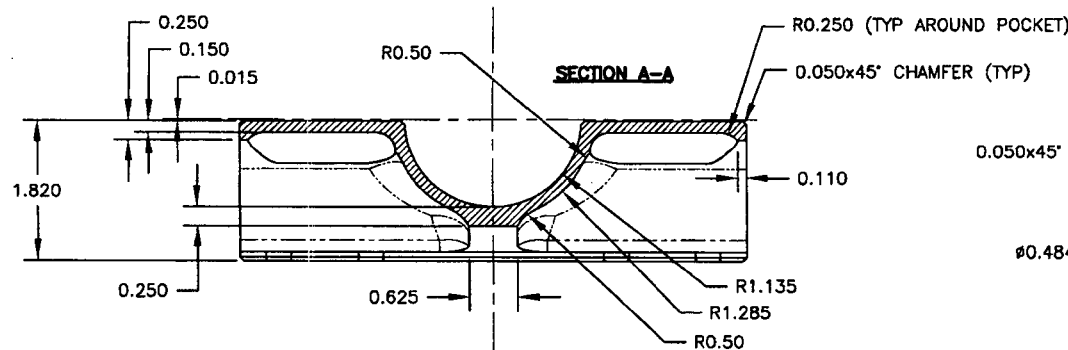
SUBJECT TO A SIGNATURE

WITHOUT NOTE
WORK ORDER

NO. *01838*

RJ109-06

ENGRAVE DART LOGO IN
THIS AREA TO A MAX
DEPTH OF 0.015 AND A MIN.
TOOL RADIUS OF 0.250



D3500-1 SADDLE

- 1) MATERIAL: 6061-T6/T651 (QQ-A-200/8 OR QQ-A-250/11)
(MAKE FROM D6102-013 SADDLE BILLET, 6061)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1.
POWDER COAT GLOSS WHITE (REF 4.3.5.1) PER
DART QSI 005 4.3
- 3) BREAK ALL SHARP EDGES 0.010 TO 0.020
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES

RELEASED

06.08.15

C	06.06.30	MAT'L NOW 6061-T6/T651
B	06.05.29	CHANGE DIMS; MAT'L NOW 7075-T7351
A	06.04.18	NEW ISSUE
DESIGN	<i>90</i>	DRAWN BY <i>PH</i>
CHECKED	<i>#</i>	APPROVED <i>#</i>
DATE	06.06.30	TITLE SADDLE
DRAWING NO. D3500		REV. C SHEET 1 OF 1 SCALE 2:3

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DART DART AEROSPACE LTD.
WARRICKURRY, ONTARIO, CANADA

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries